



## Monarch Conservation Database Web Application Tutorial for Backyard Gardens

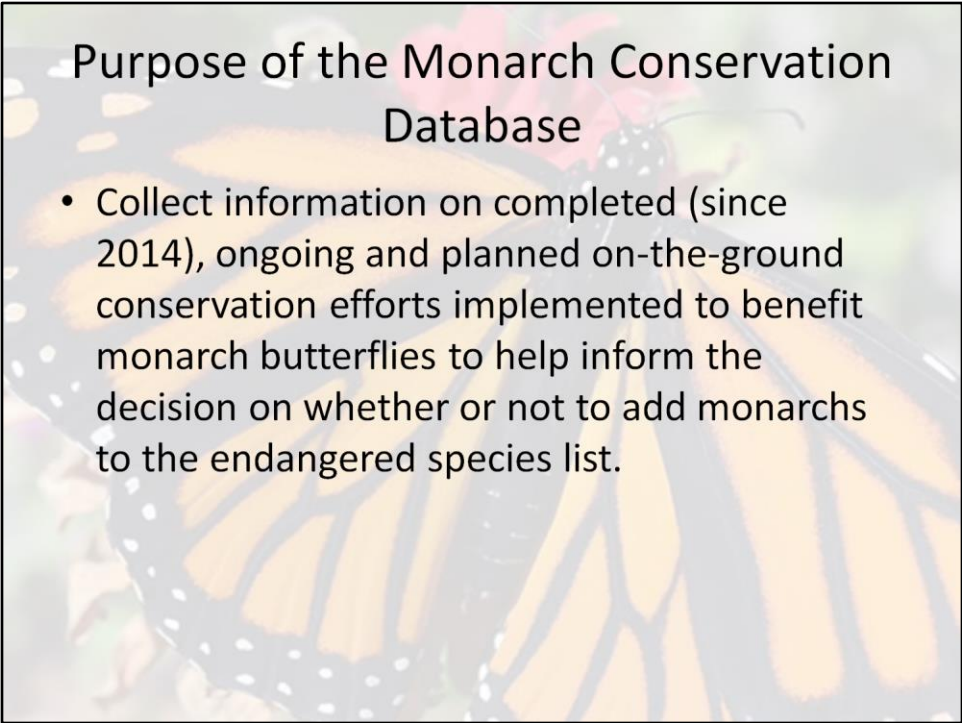
Contact us any time at:

[FW3\\_monarchconservation@fws.gov](mailto:FW3_monarchconservation@fws.gov)

Visit us any time at:

<https://www.fws.gov/savethemonarch/mcd.html>

- Hello and welcome to the Monarch Conservation Database Web Application tutorial for Backyard Gardens. My name is Steve Choy and I am coordinating the development of the Monarch Conservation Database, or MCD for short. This tutorial will walk users through the process of registering for access to the MCD web application, identifies required information and demonstrates how to enter your effort.



## Purpose of the Monarch Conservation Database

- Collect information on completed (since 2014), ongoing and planned on-the-ground conservation efforts implemented to benefit monarch butterflies to help inform the decision on whether or not to add monarchs to the endangered species list.

- First, I thought I'd review the overarching purpose of the Monarch Conservation Database, which is to collect information on recently completed, ongoing and planned on-the-ground conservation efforts implemented to benefit monarch butterflies to help inform the decision on whether or not to add monarchs to the endangered species list.

## Who does this tutorial apply to?

- Those with efforts that are NOT associated with a plan
  - A plan is a conservation agreement, conservation plan, management plan, or similar document approved by Federal agencies, State and local governments, Tribal governments, businesses, organizations or individuals
  - This may include:
    - “Backyard garden” conservation efforts
    - Private individuals

- Although I’ve labeled the title of this webinar as a tutorial for Backyard Gardens, a more accurate title might be a tutorial for conservation efforts that are not associated with a conservation plan.
- Our applicable policies define a plan as a conservation agreement, conservation plan, management plan, or similar document approved by Federal agencies, State and local governments, Tribal governments, businesses, organizations or individuals.
- If your conservation effort is not associated with or being guided by such a document, then this tutorial is for you.
- Private individuals that are planting pollinator gardens in their backyards are likely to fall into this category.



## Getting Started

- Step 1: Register for access to the web application
- Step 2: What information is required?
- Step 3: Data Entry

- There are 3 basic steps to get started:
  - Registering for access to the MCD web application
  - Identifying what information will be required
  - Data Entry

## Step 1: Register

- Email [FW3\\_monarchconservation@fws.gov](mailto:FW3_monarchconservation@fws.gov)
  - Provide your:
    - Name
    - Organization
    - Email address
    - Phone number (optional)
- You will receive an email back with
  - A link to the FWS ECOS webpage
  - A temporary password
- Upon your initial login
  - Accept the disclaimers
  - Change your password

- In order to register for access to the web application, send an email to [FW3\\_monarchconservation@fws.gov](mailto:FW3_monarchconservation@fws.gov) and provide your
  - Name
  - Organization
  - Email address
  - Phone number (which is optional – it gives us another way to contact you), and
- Before you submit your information, you may want to read through the disclaimers provided on the MCD website that explain what we do with your data and your privacy rights.
- Once you have been approved, you will get an email from the Fish and Wildlife Service's Environmental Conservation Online System (or ECOS) Helpdesk with a link to logon to the ECOS public homepage, a user name (which will be your email address), and temporary password.
- You will have 24 hours to logon to ECOS, access your profile, and change your temporary password. If more than 24 hours have passed, you'll need to email [FW3\\_monarchconservation@fws.gov](mailto:FW3_monarchconservation@fws.gov) again to let us know that your temporary password has expired.
- Upon your initial login, you will be prompted to officially acknowledge that you have read and understood the disclaimers.
- After you have successfully changed your password, look for a link to the MCD web application on the ECOS homepage.

## Step 2: What Information is Required

| Effort   |                  |
|--|------------------|
| Site   | Activity         |
| Site Name  | Activity         |
| Implementing organization  | Sub-activity     |
| Baseline land use classification                                 | Status           |
| Land use classification post effort (if different from baseline) | Start date       |
| Acres  | Milkweed Density |
| State/County   |                  |

- Once you have access to the MCD web application, you may want to review the information we are collecting. A full list is available in the Fields Table on the MCD website; this table shows the fields that we require in order to be able to evaluate your effort
- A conservation effort data record is composed of information about the site and the activity that is taking place at the site.
- Site information that we require includes:
  - A name for the site
  - The organization implementing the effort
  - The land use type of the site
  - The acres of the site, and
  - The State and County in which the site is located
- Activity information that we require includes:
  - The overarching activity or habitat management goal
  - The sub-activity or specific activity being implemented at the site
  - The implementation status of the activity
  - The approximate or anticipated start date of implementation
  - The baseline and post effort milkweed density at the site
- I'll provide additional information about these key fields when we go through the data entry demonstration

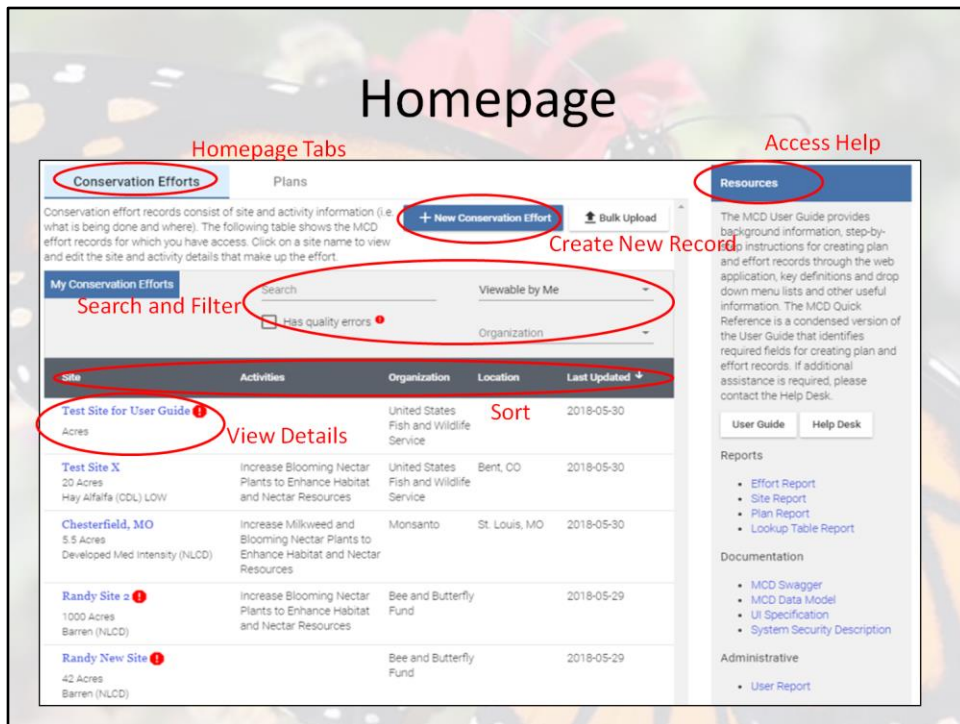




## Before We Begin

- All plans and efforts displayed in the screen shots are examples and for illustrative purposes only!

- Before we go into the demo portion, please note that the efforts you'll see are examples and for illustrative purposes only.



- As a quick orientation, there are 3 basic page types for an effort record
- This is what your Homepage will look like for conservation efforts
- To ensure that you are on the Conservation Efforts Homepage, make sure that the Conservation Efforts Tab is highlighted
- From the Conservation Efforts Homepage, you can:
  - Create a new effort record
  - Access help documents from the MCD webpage or the ECOS helpdesk
  - Search for specific efforts by using the search box, or filter for plans that meet certain accessibility, data quality, or author criteria
  - Sort records by the site name, conservation activities implemented at the site, implementing organization, site location, or date last updated
  - You can also click on individual site names to access the View page for that conservation effort and see and edit information
- Note that on your Conservation Efforts Homepage, you will only have access to those conservation effort records that you have created, you have been tagged as a collaborator on, or that you have been added as an editor to



# View Page

**Test Site for User Guide**  
United States Fish and Wildlife Service

Last Updated: 5/30/18 by Steven Choy

**Site Details**

**Name**  
Test Site for User Guide

**Organization Leading the Effort**  
United States Fish and Wildlife Service

**Collaborators**  
Integrated Monarch Monitoring Program Site #

**Plans**  
• Test Plan for User Guide

**Database ID**  
2019

**Site Location**  
[Edit Spatial Method](#) [Edit Details](#)

**Method of Specification**  
County List

**Acres**

**Public or Private Land**  
The effort is on

**Land Use Baseline**  
Land Use After Effort

**Intersecting Counties**

**Conservation Activities**  
[Add an Activity](#)

**Site Habitat Gain**  
[Add](#)

**Operations**  
[Delete](#)

**Data Quality Check**  
Any required fields that have not been populated or business rule violations are identified below and can be addressed by editing the details of the effort record.

- Required information missing:** The site must specify a spatial location.
- Required information missing:** The site baseline land use classification must be non-null.
- Required information missing:** The site acres must be non-null.

**Effort users**  
You may allow other MCD web application users to be able to edit the details of the effort record or associate the effort record with a Data Coordinator by clicking the "Add users as editor or data coordinator" button below.

**Owner**  
Steven Choy  
steven\_choy@fws.gov

**Editors**  
[Add users as Editors or Data Coordinators](#)

- When you click on an individual site name, you are taken to the View page where you can view the details of the effort and you can also
  - Edit those details by clicking on the edit button
  - Delete the effort record
  - Identify any data quality issues such as missing fields through the yellow QA/QC box, and
  - Add other users as editors which will allow those users to be able to edit the record

# Edit Page

Test Site for User Guide

← Return

Conservation Activities

Habitat Management Goal \*

Available habitat management goals are specific to the baseline land use of the site.

Grassland (NLCD)

Activity Type

Increase Milkweed and Blooming Nectar Plants to Enhance Habitat and Nectar Resources

Sub-activity \*

Available sub-activities are specific to the baseline land use of the site and the habitat management goal selected above. Sub-activity definitions can be found in the NLCD User Guide

Sub-activity Type

Planting

Affected Acres

Implementing Organization

Status

Implemented

Start date

5/2/2018

End date

Target Species

Pollinator

Season

Notes

Policy for Evaluating Conservation Effort (R.E.C.E) Effectiveness

Objectives Identified

Yes No

Explicit incremental objectives for the conservation effort and dates for achieving them are stated.

- If we click on the “Edit” button from the View page, you can see that we can now edit and interact with all of the fields
- There are a few types of data entry fields to be aware of:
  - There are open text boxes
  - Drop down menus, some of which will be multiple check box drop down menus
  - Radio buttons
  - And drag and drop boxes
- Additionally, red asterisks mark required fields

## Step 3: Creating Effort Records

The screenshot displays the 'Conservation Efforts' tab in the MCD User Guide. The 'Conservation Efforts' tab is highlighted with a red circle. Below the tab, there is a '+ New Conservation Effort' button, also highlighted with a red circle. The main content area shows a table of conservation efforts with columns: Site, Activities, Organization, Location, and Last Updated. The table lists five entries: 'Test Site for User Guide', 'Test Site X', 'Chesterfield, MO', 'Randy Site', and 'Randy New Site'. Each entry includes details about the site, activities, organization, location, and last updated date. On the right side, there is a 'Resources' section with links to 'User Guide', 'Help Desk', 'Reports', 'Documentation', and 'Administrative'.

| Site  | Activities   | Organization                            | Location      | Last Updated |
|---|--|---|---------------|--------------|
| Test Site for User Guide<br>Acres                               |  | United States Fish and Wildlife Service |               | 2018-05-30   |
| Test Site X<br>20 Acres<br>Hay Alfalfa (CDL) LOW                | Increase Blooming Nectar Plants to Enhance Habitat and Nectar Resources              | United States Fish and Wildlife Service | Bent, CO      | 2018-05-30   |
| Chesterfield, MO<br>5.5 Acres<br>Developed Med Intensity (NLCD) | Increase Milkweed and Blooming Nectar Plants to Enhance Habitat and Nectar Resources | Monsanto                                | St. Louis, MO | 2018-05-30   |
| Randy Site<br>1000 Acres<br>Barren (NLCD)                       | Increase Blooming Nectar Plants to Enhance Habitat and Nectar Resources              | Bee and Butterfly Fund                  |               | 2018-05-29   |
| Randy New Site<br>42 Acres<br>Barren (NLCD)                     |  | Bee and Butterfly Fund                  |               | 2018-05-29   |

- Now that we are oriented, we can start data entry.
- Again, start by making sure that the Conservation Efforts Tab is highlighted.
- Click the “New Conservation Effort” button.

# Creating an Effort Record: Provide a Name

**Provide a name for the Conservation Effort Site** Help

Site (Location) Name  
Test Site for User Guide

Organization leading the Conservation Effort Implementation  
United States Fish and Wildlife Service

After clicking "Create Site", you will be able to edit additional, required information such as location, P.E.C.E controls, plans, and Conservation Efforts.

[Create Site](#) [Cancel](#)

**ECOS**  
[ECOS Home](#)  
[About ECOS](#)  
[Contact Us](#)

**POLICIES**  
[Accessibility](#)  
[Privacy](#)  
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[FWS](#)

- You will be prompted to create a name for the site and select the organization leading implementation of the conservation effort.
- The Lead Organization Field is a drop down field. If you are not associated with an organization, you may select "Private Individual." If you are part of an organization but don't see it in the list please feel free to email me at FW3\_monarchconservation@fws.gov.
- Click "Create Site" to be taken to the View page for the newly created conservation effort record.

# Creating an Effort Record: View the Details

Test Site for User Guide  
United States Fish and Wildlife Service  
Last Updated: 5/30/18 by Steven Choy

**Site Details** [Edit](#)

Name: Test Site for User Guide  
Organization Leading the Effort: United States Fish and Wildlife Service  
Collaborators: Integrated Monarch Monitoring Program Site #  
Plans: Test Plan for User Guide  
Database ID: 2019

**Site Location** [Edit Spatial Method](#) [Edit Details](#)

Method of Specification: County List  
Acres:   
Public or Private Land: The effort is on  
Land Use Baseline: Land Use After Effort  
Intersecting Counties:

**Conservation Activities** [Add an Activity](#)

**Site Habitat Gain** [Add](#)

**Operations**  
[Delete](#)

**Data Quality Check**  
Any required fields that have not been populated or business rule violations are identified below and can be addressed by editing the details of the effort record.

- **Required information missing:** The site must specify a spatial location.
- **Required information missing:** The site baseline land use classification must be non-null.
- **Required information missing:** The site acres must be non-null.

**Effort users**  
You may allow other MCD web application users to be able to edit the details of the effort record or associate the effort record with a Data Coordinator by clicking the "Add users as editor or data coordinator" button below.

Owner: Steven Choy  
steven\_choy@fws.gov  
Editors:   
[Add users as Editors or Data Coordinators](#)

- From the view page that you can see that conservation effort records are divided up into 4 sections:
  - Site Details
  - Site Location
  - Conservation Activities, and
  - Site Habitat Gain
- The details in each of these sections can be edited by clicking on the blue buttons to the right of each section header.

# Creating an Effort Record: Edit the Details

The screenshot shows a web form titled "Test Site for User Guide" with a "Return" link. The "Site Details" section contains the following fields:

- Site Name:** Test Site for User Guide
- Organization leading the Conservation Effort Implementation:** United States Fish and Wildlife Service
- Collaborators:** (empty dropdown)
- IMMP Site Label (See help to right):** (empty dropdown)

Below the "Plans (Not required)" section, there is a "Remove" button and a "Test Plan for User Guide" button. A text box labeled "Add another plan" contains a "Plan Name" input field and an "Associate plan" button. At the bottom, there is a "Cannot find you plan? Create it" link and a "Save" button (highlighted with a red circle) next to a "Cancel" button.

On the right side, there is a "Help" section titled "What is the Integrated Monarch Monitoring Program (IMMP)?". It explains that the IMMP is a national initiative to monitor monarch populations and habitat throughout the breeding range. It provides contact information: [monarchs@monarchjointventure.org](mailto:monarchs@monarchjointventure.org) or visit <https://monarchjointventure.org/get-involved/mcsp-monitoring>.

At the bottom of the form, there are three columns of links: "ECOS" (ECOS Home, About ECOS, Contact Us), "POLICIES" (Accessibility, Privacy, Terms, Disclaimer), and "ABOUT" (About the USFWS, USA Rep, EPA). There are also two circular logos on the right.

- Starting with the Site details section, fill out the required fields marked with red asterisks and populate the other fields to the best of your ability if they apply to you. In this case the two required fields (Site Name and Lead Organization) are required but were populated during the initial effort record creation step.
- If you add other organizations as collaborators, all of the users who are a part of that organization will be able to view (but not edit) your record.
- Click "Save" to save your information and return to the View page.



# Creating an Effort Record: View the Details

Test Site for User Guide  
United States Fish and Wildlife Service

Last Updated: 5/30/18 by Steven Choy

Site Details

Edit

Name  
Test Site for User Guide

Organization Leading the Effort  
United States Fish and Wildlife Service

Collaborators

Integrated Monarch Monitoring Program Site #

Plans  
• Test Plan for User Guide

Database ID  
2019

Site Location

Method of Specification  
County List

Acres

Public or Private Land  
The effort is on

Land Use Baseline

Land Use After Effort

Intersecting Counties

Conservation Activities

Add an Activity

Site Habitat Gain

Add

Operations

Delete

Data Quality Check

Any required fields that have not been populated or business rule violations are identified below and can be addressed by editing the details of the effort record.

Required information missing: The site must specify a spatial location.

Required information missing: The site baseline land use classification must be non-null.

Required information missing: The site acres must be non-null.

Effort users

You may allow other MCD web application users to be able to edit the details of the effort record or associate the effort record with a Data Coordinator by clicking the "Add users as editor or data coordinator" button below.

Owner  
Steven Choy  
steven\_choy@fws.gov

Editors

Add users as Editors or Data Coordinators

- The next step is to provide spatial information about the site. Start by clicking on the "Edit Spatial Method" button.

# Creating an Effort Record: Edit the Site Spatial Details

**Site Location Choose Spatial Method**


Please choose a method for providing spatial information for the site. Spatial information can be provided by uploading a shapefile delineating the site. If providing a shapefile, the baseline land use type, acres, and counties fields will automatically be populated. To provide a shapefile, please click the "I will upload a shapefile for this site" button below.

If you do not wish to or are unable to provide a shapefile, you may manually provide spatial information by choosing the state(s) and county(ies) in which the site is located by clicking on the "I will choose U.S. counties for this site" button below.

You may change the method for providing site spatial information at anytime.

[I will upload a shapefile for this site](#) [I will choose U.S. counties for this site](#)

|                            |                               |                                   |
|----------------------------|-------------------------------|-----------------------------------|
| <b>ECOS</b>                | <b>POLICIES</b>               | <b>ABOUT</b>                      |
| <a href="#">ECOS Home</a>  | <a href="#">Accessibility</a> | <a href="#">About the US Fish</a> |
| <a href="#">About ECOS</a> | <a href="#">Privacy</a>       | <a href="#">USA.gov</a>           |
| <a href="#">Contact Us</a> | <a href="#">Locations</a>     | <a href="#">FOIA</a>              |
|                            | <a href="#">Disclaimer</a>    |                                   |



- You'll be given two options for providing site spatial information:
  - You can provide a shapefile, or
  - You can manually choose the State and County in which your site is located
- Unfortunately, the upload a shapefile feature is not working at the moment but I will go through the process now and send an email blast to all users who would like to use this feature when it is up and running.
- Click on the "I will upload a shapefile for the site" button to provide a shapefile.

# Creating an Effort Record: Edit the Site Spatial Details ( Upload Shapefile)

**Test Project 2**  
← Return

### Upload the Site Shapefile

Shapefiles can be added by dragging and dropping the files in the drag and drop box, or by browsing for the files on your computer

Description

Drop & drop shapfile

Drop Shapefile Here

OR

Browse files

Name

Action

ECOS: [ECOS Home](#), [About ECOS](#), [Contact us](#)

POLICIES: [Accessibility](#), [Privacy](#), [Updates](#), [Disclaimer](#)

ABOUT: [About the US Fish](#), [USA you](#), [FAQs](#)

**Help**

#### Manually Provide Site Spatial Details

If you do not wish to or are unable to provide spatially explicit information (such as a shapefile), you may provide spatial details for the site manually by selecting the state and counties in which the site is located from a drop down menu.

**Manually Provide Site Spatial Details**

- You can either drag and drop the shapefile delineating the site or browse for the shapefile in your file explorer to upload.
- Only you and users you have assigned as editors will have access to the shapefile if you provide one. If you do provide a shapefile, the acreage and counties will automatically be populated in the Site Location Details form which we'll get to shortly.
- At any point, you can delete your shapefile to upload a new one or delete and choose to provide your site spatial location by manually selecting counties by clicking on the "Manually Provide Site Spatial Details" button from the Edit site spatial page or

# Creating an Effort Record: Edit the Site Spatial Details

**Site Location Choose Spatial Method**

Please choose a method for providing spatial information for the site. Spatial information can be provided by uploading a shapefile delineating the site. If providing a shapefile, the baseline land use type, acres, and counties fields will automatically be populated. To provide a shapefile, please click the "I will upload a shapefile for this site" button below.

If you do not wish to or are unable to provide a shapefile, you may manually provide spatial information by choosing the state(s) and county(ies) in which the site is located by clicking on the "I will choose U.S. counties for this site" button below.

You may change the method for providing site spatial information at anytime.

[I will upload a shapefile for this site](#) [I will choose U.S. counties for this site](#)

**ECOS** **POLICIES** **ABOUT**

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[About ECOS](#) [Privacy](#) [USA 920](#)

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- By clicking “I will choose U.S. counties for this site when initially clicking on the “Edit Spatial Method” button
- If you choose to manually provide site spatial details, you can do so by choosing the state and county in which the site is located.

## Creating an Effort Record: Edit the Site Spatial Details (Select Counties)

Test Site for User Guide  
← Return

### Site Counties

Choose the State(s) and County(ies) in which your site is located.

State: Wisconsin

County: Dane

[Add >>](#)



Counties which contain the site  
Wisconsin, Dane

[Save](#)

ECOS: [ECOS home](#), [About ECOS](#), [Contact Us](#)

POLICIES: [Accessibility](#), [Privacy](#), [Notice](#), [Disclaimer](#)

ABOUT: [About the US FWS](#), [USA.gov](#), [FOIA](#)



- First choose the state, then choose the county.
- If dealing with multiple counties, they have to be added one at a time, however there is an add “All” counties option.
- Click the “Save” button to save your information and return to the View page

# Creating an Effort Record: View the Details

Test Site for User Guide  
United States Fish and Wildlife Service  
Last Updated: 5/30/18 by Steven Choy

**Site Details** [Edit](#)

**Name**  
Test Site for User Guide

**Organization Leading the Effort**  
United States Fish and Wildlife Service

**Collaborators**  
Integrated Monarch Monitoring Program Site #

**Plans**  
• Test Plan for User Guide

**Database ID**  
2019

**Site Location** [Edit Spatial Method](#) [Edit Details](#)

**Method of Specification**  
County List

**Acres**

**Public or Private Land**  
The effort is on

**Land Use Baseline**  
Land Use After Effort

**Intersecting Counties**

**Conservation Activities** [Add an Activity](#)

**Site Habitat Gain** [Add](#)

**Operations**  
[Delete](#)

**Data Quality Check**  
Any required fields that have not been populated or business rule violations are identified below and can be addressed by editing the details of the effort record.

- **Required information missing:** The site must specify a spatial location.
- **Required information missing:** The site baseline land use classification must be non-null.
- **Required information missing:** The site acres must be non-null.

**Effort users**  
You may allow other MCD web application users to be able to edit the details of the effort record or associate the effort record with a Data Coordinator by clicking the "Add users as editor or data coordinator" button below.

**Owner**  
Steven Choy  
steven\_choy@fws.gov

**Editors**  
[Add users as Editors or Data Coordinators](#)

- Finish providing site location information by clicking on “Edit Details” next to the Site Location section header



## Creating an Effort Record: Edit the Site Location Details

The screenshot shows a web form titled "Test Site for User Guide" with a "Return" link. The main section is "Site Location Details". It contains two dropdown menus: "Land Use Baseline" (set to "Grassland (NLCD)") and "Land Use After Effort". Below these is a text field for "Acres" (set to "2") and a dropdown for "Land Ownership" (set to "Public"). A "Help" button is in the top right. At the bottom left, "Save" and "Cancel" buttons are shown, with "Save" circled in red. The footer includes links for ECOS, POLICIES, and ABOUT, along with two logos.

- Here you can indicate the baseline land use and acres of site which you can see are required, and you can also provide information about the post effort land use if applicable and land ownership if you'd like.
- The land use type fields are drop down menus and a list of land use types and their definitions can be found in the User Guide, Quick Reference, or Land Use and Activities documents all available on the MCD website.
- If there are many land use types at the site or you cannot easily determine the dominant land use type, please use your best judgement or you may also select "Unspecified."
- Click the "Save" button to save your information and return to the View page.

# Creating an Effort Record: View the Details

Test Site for User Guide  
United States Fish and Wildlife Service

Last Updated: 5/30/18 by Steven Choy

Site Details

Edit

Name  
Test Site for User Guide

Organization Leading the Effort  
United States Fish and Wildlife Service

Collaborators

Integrated Monarch Monitoring Program Site #

Plans  
• Test Plan for User Guide

Database ID  
2019

Site Location

Edit Spatial Method Edit Details

Method of Specification  
County List

Acres

Public or Private Land  
The effort is on

Land Use Baseline

Land Use After Effort

Intersecting Counties

Conservation Activities

Add an Activity

Site Habitat Gain

Add

Operations

Delete

Data Quality Check

Any required fields that have not been populated or business rule violations are identified below and can be addressed by editing the details of the effort record.

Required information missing: The site must specify a spatial location.

Required information missing: The site baseline land use classification must be non-null.

Required information missing: The site acres must be non-null.

Effort users

You may allow other MCD web application users to be able to edit the details of the effort record or associate the effort record with a Data Coordinator by clicking the "Add users as editor or data coordinator" button below.

Owner  
Steven Choy  
steven.choy@fws.gov

Editors

Add users as Editors or Data Coordinators

- You can add conservation activities to the effort record by clicking on the “Add an Activity” button.

# Creating an Effort Record: Edit the Conservation Activities

The screenshot shows a web application interface for editing conservation activities. The title bar reads 'Test Site for User Guide' with a 'Return' button. The main heading is 'Conservation Activities' with a 'Help' button. The form contains the following sections:

- Habitat Management Goal \***: A dropdown menu with the selected value 'Grassland (NCCO)'. A note states: 'Available habitat management goals are specific to the baseline land use of the site.'
- Activity Types**: A dropdown menu with the selected value 'Increase Milkweed and Blooming Nectar Plants to Enhance Habitat and Nectar Resources'.
- Sub-activity \***: A dropdown menu with the selected value 'Planting'. A note states: 'Available sub-activities are specific to the baseline land use of the site and the habitat management goal selected above. Sub-activity definitions can be found in the MCD User Guide.'
- Affected Acres**: A text input field.
- Implementing Organization**: A dropdown menu.
- Status \***: A dropdown menu with the selected value 'Implemented'.
- Start date \***: A date input field with the value '5/2/2018' and a calendar icon.
- End date**: A date input field with a calendar icon.
- Target Species**: A dropdown menu.
- Pollinator**: A dropdown menu.
- Season**: A dropdown menu.
- Notes**: A text area with a 'Save' icon.

- Again, populate the required information and fill-in the non-required fields if you can.
- The Habitat Management Goal (or Activity) and Sub-activity fields are also drop down menus. Similar to the land use types, you can find a list of all activity and sub-activity types and their definitions in the User Guide, Quick Reference, or Land Use and Activities documents on the MCD website.
- Click the “Save” button to save your information and return to the View page.

# Creating an Effort Record: View the Details

Test Site for User Guide  
United States Fish and Wildlife Service

Last Updated: 5/30/18 by Steven Choy

Site Details

Edit

Name  
Test Site for User Guide

Organization Leading the Effort  
United States Fish and Wildlife Service

Collaborators

Integrated Monarch Monitoring Program Site #

Plans  
• Test Plan for User Guide

Database ID  
2019

Site Location

Edit Spatial Method Edit Details

Method of Specification  
County List

Acres

Public or Private Land  
The effort is on

Land Use Baseline

Land Use After Effort

Intersecting Counties

Conservation Activities

Add an Activity

Site Habitat Gain

Add

Operations

Delete

Data Quality Check

Any required fields that have not been populated or business rule violations are identified below and can be addressed by editing the details of the effort record.

Required information missing: The site must specify a spatial location.

Required information missing: The site baseline land use classification must be non-null.

Required information missing: The site acres must be non-null.

Effort users

You may allow other MCD web application users to be able to edit the details of the effort record or associate the effort record with a Data Coordinator by clicking the "Add users as editor or data coordinator" button below.

Owner  
Steven Choy  
steven.choy@fws.gov

Editors

Add users as Editors or Data Coordinators

- The last step to completing an effort record is providing habitat gain information by clicking on the “Add” button.

# Creating an Effort Record: Edit Site

## Gains

The screenshot shows a web form titled 'Test Site for User Guide' with a 'Return' link. The form is for editing site information and is divided into two main sections: 'Milkweed Measures' and 'Blooming Nectar Plant'. Each section has a 'Baseline Measures' column and a 'Post Effort Measures' column. In the 'Milkweed Measures' section, the 'Baseline density (stems/acre) \*' and 'Post effort density (stems/acre) \*' fields are highlighted with red circles. Below these are fields for 'Baseline diversity (species observed)', 'Post effort diversity (species observed)', and a question 'Was one milkweed species dominant (i.e. >80 proportional abundance) during baseline survey?' with 'Yes' and 'No' radio buttons. The 'Blooming Nectar Plant' section has a 'Baseline Measures' column with fields for 'Baseline date', 'Baseline frequency 0.25m plot (% of plots w/BNP)', 'Baseline frequency 0.50m plot (% of plots w/BNP)', 'Baseline frequency 1m plot (% of plots w/BNP)', 'Baseline density (plants/m²)', and 'Baseline richness (species observed)'. The 'Post Effort Measures' column has corresponding fields for 'Post effort date', 'Post effort frequency 0.25m plot (% of plots w/BNP)', 'Post effort frequency 0.50m plot (% of plots w/BNP)', 'Post effort frequency 1m plot (% of plots w/BNP)', 'Post effort density (plants/m²)', and 'Post effort richness (species observed)'. At the bottom left, there are 'Save' and 'Cancel' buttons, with the 'Save' button highlighted by a red circle. A 'Help' button is located at the top right of the form.

- These are very detailed metrics that are shared with the Monarch Joint Venture's Integrated Monarch Monitoring Program and the Environmental Defense Fund's Habitat Quality Tool.
- The only required field for this form is baseline and post effort Milkweed Density.
- If you are unable to provide accurate field data for milkweed density at your site, please refer to the Land Use and Activities table, User Guide, or Quick Reference (all available on the MCD website) for the "All Hands on Deck" Publication estimates for baseline and potential and amended milkweed density.
- For example, looking at the table, if the baseline land use was Grassland, you would look at the Estimated Baseline Milkweed Density column and note that the baseline milkweed density is 3.09 stems per acre which you would then enter as your baseline milkweed density.
- If the land use after implementation of the effort did not change, you would look at the Potential/Amended Milkweed Density column for Grassland and use 40 stems per acre as the post effort milkweed density.
- If the land use after implementation did change to Grassland PADUS Protected for example, then you would find the potential or amended milkweed density for the new land use and use 250 stems per acre as your post effort milkweed density.
- Click the "Save" button to save your information and return to the View

page.





## Resources

- Please visit:  
<https://www.fws.gov/savethemonarch/mcd.html> to  
access useful resources, including:
  - A copy of this slide show
  - A comprehensive User Guide
  - A condensed version of the User Guide (Quick Reference)
  - Land Use and Activities Table
- As I mentioned during the presentation, you can visit the MCD website for  
key resources, including:
  - A copy of this slideshow along with the script
  - A comprehensive User Guide
  - A condensed version of the User Guide called the Quick Reference,  
and
  - The Land Use and Activities Table



# THANKS!

- Contact us any time at:  
[FW3\\_monarchconservation@fws.gov](mailto:FW3_monarchconservation@fws.gov)
- Visit us any time at:  
<https://www.fws.gov/savethemonarch/mcd.html>

- Thanks again for your interest in the Monarch Conservation Database. We greatly appreciate your taking the time to learn how to use the web application and provide critical data about your conservation efforts. Your data will help us better assess future conditions for monarchs and help us make an informed decision.
- As always, please contact us at any time at [fw3\\_monarchconservation@fws.gov](mailto:fw3_monarchconservation@fws.gov) and visit the MCD web page at <https://www.fws.gov/savethemonarch/mcd.html> for important resources and updates.